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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the applications:

I Claim:

- 1. (Currently Amended) An electronic golf swing analyzer system, comprising:
- an analyzer including an infrared sensor base and an ultrasonic sensor base, said infrared sensor base includes a hitting area with a center axis with two arrays of infrared sensors located therein used to detect the presence of a club head moving through said hitting area, each said array of infrared sensors being located on opposite sides and equal distance from said center axis, said ultrasonic sensor base being perpendicularly aligned and extending upward above said infrared sensor base, said ultrasonic sensor base including at least two ultrasonic sensors aimed at said hitting area, said ultrasonic sensors being located on opposite sides and equal distance from said center axis, means for activating said ultrasonic sensor on the same side of said center axis as said array of infrared sensors located on the same side of said center axis when a golf club moves across said infrared sensor base;
 - b. a computer having working memory;
 - means for connecting said analyzer to said computer, c.
- a golf swing analyzing software application loaded into said working memory of said computer, said software application capable of using the data from said ultrasonic sensors and said infrared sensors when a golf club is swing is made over said hitting area to determine a golf ball's distance, direction, and flight path after impact.

2. (Original) The electronic golf swing analyzer system, as recited in Claim 1, wherein said

1	means for activating said ultrasonic sensors on the same side of said center axis when said
2	array of infrared sensors are activated is a micro-controller coupled to said infrared sensors
3	that activates said ultrasonic sensor.
4	
5	3. (Original) The electronic golf swing analyzer system, as recited in Claim 1, wherein said
6	array of infrared sensors includes one outer infrared sensor and two inner infrared sensors.
7	
8	4. (Original) The electronic golf swing analyzer system, as recited in Claim 3 wherein said
9	ultrasonic sensors are automatically activated to produce ultrasonic signals when a golf club
10	moves over said arrays of infrared sensors, said ultrasonic sensors being aimed to transmit an
11	ultrasonic signal and receive a reflected ultrasonic signal from a golf club moving over said
12	array of infrared sensors located on the same side of said center axis.
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14	5. (Original) The electronic golf swing analyzer system, as recited in Claim 3, wherein the
15	ultrasonic sensor located on one side of said center axis is coupled to said inner infrared
16	sensors to activate said inner infrared sensors.
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18	6. (Original) The electronic golf swing analyzer system, as recited in Claim 3, wherein each
19	said infrared sensor include an infrared emitter and an infrared photodiode detector.
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21	7. (Original) The electronic golf swing analyzer system, as recited in Claim 6, wherein said
22	infrared emitter and said infrared photodiode detector are located in a bushing fitted to said
23	infrared support base.

1	8. (Original) The electronic golf swing analyzer system, as recited in Claim 7, further
2	including an infrared filter located over said photo-detector.
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4	9. (Original) The electronic golf swing analyzer system, as recited in Claim 8, further
5	including a lens mounted over said photodiode detector to direct infrared radiation towards
6	said photo-detector.
7	
8	10. (Original) The electronic golf swing analyzer system, as recited in Claim 1, further
9	including a rubber mat attached over said infrared sensor base.
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11	11. (Original) The electronic golf swing analyzer system, as recited in Claim1, wherein said
12	means to connect said computer to said analyzer is a serial communications cable.
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14	12. (Original) The electronic golf swing analyzer system, as recited in Claim 1, wherein said
15	infrared support base and said ultrasonic support base are pivotally connected together along
16	one edge thereby enabling said analyzer to be selectively opened and closed.
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18	13. (Original) The electronic golf swing analyzer system, as recited in Claim 1, wherein said
19	arrays of infrared sensors transmit and receive an infrared signal reflected from a golf club
20	head moving over said array to detect the velocity of a golf club.
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22	14. (Original) The electronic golf swing analyzer system, as recited in Claim 1, wherein said
23	ultrasonic sensors are automatically activated to produce ultrasonic signals when a golf club

moves over said arrays of infrared sensors located on the same side of said center axis of said infrared support base, said ultrasonic sensors being aimed to transmit an ultrasonic signal and receive a reflected ultrasonic signal from a golf club moving over said array of infrared sensors located on the same side of said center axis.

15. (Original) An electronic golf swing analyzer system, comprising:

- a. an analyzer including an infrared sensor base and an ultrasonic sensor base, said infrared sensor base includes a hitting area with a center axis with two arrays of infrared sensors located therein used to detect the presence of a club head moving through said hitting area, each said array of infrared sensors include an infrared emitter and an infrared photodiode detector and being located inside a bushing mounted on opposite sides and equal distance from said center axis, said ultrasonic sensor base being perpendicularly aligned and extending upward above said infrared sensor base, said ultrasonic sensor base including at least two a pair of ultrasonic sensors aimed at said hitting area, said pair of ultrasonic sensors being located on opposite sides and equal distance from said center axis, 3 said ultrasonic sensors being automatically activated to produce ultrasonic signals when a golf club moves over said arrays of infrared sensors, said ultrasonic sensors being aimed to transmit an ultrasonic signal and receive a reflected ultrasonic signal from a golf club moving over said array of infrared sensors located on the same side of said center axis;
 - b. a computer having working memory and a visual display means;
 - c. means for connecting said analyzer to said computer,
- d. a golf swing analyzing software application loaded into said working memory of said computer, said software application capable of using the data from said ultrasonic

1	sensors and said infrared sensors when a golf club is swing is made over said hitting area to
2	determine a golf ball's distance, direction, and flight path after impact and displaying said
3	information on said display means.
4	
5	16. (Original) The electronic golf swing analyzer system, as recited in Claim 15, wherein
6	said infrared support base and said ultrasonic support base are pivotally connected together
7	along one edge thereby enabling said analyzer to be selectively opened and closed.
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9	17. (Original) The electronic golf swing analyzer system, as recited in Claim 15, further
10	including a stance base connected to said infrared support base upon which a player stands to
11	swing a golf club.
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13	18. (Original) The electronic golf swing analyzer system, as recited in Claim 17, wherein
14	said stance base includes a grid surface.
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16	19. (Original) The electronic golf swing analyzer system as recited in Claim 18, wherein said
17	stance base includes two hinged boxes.
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19	20. (Original) The electronic golf swing analyzer system, as recited in Claim 15, wherein
20	said software program allows a user to select a specific club, ball, environmental conditions,
21	and the player's profile (right handed or left handed golfer).
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